

WHAT IS CLAIMED IS:

1. A font processor, comprising:  
a data acquiring device that acquires font data of bitmap fonts;  
a subpixel-font generating device that analyzes a pixel arrangement of the font data by pattern matching to generate subpixel fonts that have data in subpixels; and  
a gradation controlling device that controls gradation levels of the subpixels constituting the subpixel fonts.
2. The font processor according to Claim 1, wherein, when pixels constituting the font data are adjacently arranged in a diagonal line, the subpixel-font generating device horizontally shifts the subpixels constituting the pixels by a predetermined number of subpixels.
3. The font processor according to Claim 2, the subpixel-font generating device shifting the subpixels constituting the pixels left when the pixels constituting the font data are adjacently arranged in a left diagonal line, while the subpixel-font generating device shifts the subpixels constituting the pixels right when the pixels constituting the font data are adjacently arranged in a right diagonal line.
4. The font processor according to Claim 1, the subpixel-font generating device placing the subpixels constituting the pixels at positions of the corresponding pixels when the pixels constituting the font data are arranged in a horizontal line or in a vertical line.
5. The font processor according to Claim 1, the subpixel-font generating device performing the pattern matching using a matching pattern of 3×3 pixels.
6. The font processor according to Claim 1, the gradation controlling device further comprising:  
an edge detecting device that detects edges included in the subpixel fonts; and  
a gradation setting device that sets gradation level of the pixels constituting the edges to an intermediate gradation level.
7. The font processor according to Claim 6,  
the edge detecting device detecting portions where pixels constituting a character are horizontally adjacent to pixels constituting a background as the edges, and  
the gradation setting device increasing the gradation level of the pixels constituting the character by a predetermined percentage and decreasing the gradation level of the pixels constituting the background by the predetermined percentage.
8. A terminal device, comprising:

the font processor according to Claim 1;

a storage device that stores font data generated by the font processor; and

a display unit that displays the font data generated by the font processor.

9. A font processing method, comprising:

acquiring font data of bitmap fonts;

analyzing a pixel arrangement of the font data by pattern matching to generate subpixel fonts that have data in subpixels; and

controlling the gradation levels of the subpixels constituting the subpixel fonts.

10. A font processing program executed in a terminal device having a computer, the program causing the computer to function as:

a data acquiring device that acquires font data of bitmap fonts;

a subpixel-font generating device that analyzes a pixel arrangement of the font data by pattern matching to generate subpixel fonts that have data in subpixels; and

a gradation controlling device that controls gradation levels of the subpixels constituting the subpixel fonts.